

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A method for using a processor to provide treatment recommendations for improving ~~managing~~ the healthcare of ~~members~~ a member of a population, comprising the steps of:

a) identifying, using the processor, electronic information representing key medical characteristics and key member characteristics of the members of the population, wherein the key member characteristics include at least one of vital statistics, occupations, family histories and lifestyles of the respective members, and further wherein the electronic information is received over a communication network;

b) obtaining, by the processor, electronic population data that substantially conform to the key medical characteristics and the key member characteristics from a substantial proportion of the members of the population ~~gathering population data comprising demographic and medical information of a plurality of the members;~~

c) organizing[[,]] and structuring, by the processor, and storing the electronic population data, and storing the organized and structured electronic population data in an electronic database;

d) establishing, by the processor, a set of logical rules for medical analysis, wherein the logical rules are based on one or more of accepted medical teachings, medical standards and protocols, drug formularies and the organized and structured electronic population data;

e) obtaining, by the processor, medical and demographic information for a particular member who requires medical care ~~patient specific information of a selected member;~~

f) analyzing, by the processor, the medical and demographic information of the particular member who requires medical care ~~the patient specific information~~ using the set of logical rules; and

g) providing, by the processor and based on the analyzing, medically appropriate patient specific treatment recommendations for the medical treatment of the selected particular member.

2. (currently amended) The method of claim 1, further comprising the step of identifying, by the processor, the electronic population data.

3. (currently amended) The method of claim 1, further comprising the step of monitoring, by the processor, the medical treatment outcome of the ~~selected~~ particular member and assessing whether the treatment outcome is acceptable or not acceptable.

4. (currently amended) The method of claim 3, further comprising the step of periodically monitoring the medical treatment outcome of the ~~selected~~ particular member using follow-up health checks if the medical treatment outcome of the selected member is acceptable.

5. (currently amended) The method of claim 3, further comprising the steps of:

a) adding the patient specific information and the medical treatment outcome of the selected member to the electronic population data;

b) ~~refining~~ revising the set of logical rules based on the ~~selected~~ particular member's patient specific information and medical treatment outcome;

c) analyzing, by the processor, the medical and demographic information of the particular member who requires medical care ~~the patient specific information~~ using the revised set of logical rules; and

d) providing revised recommendations for the medical treatment of the ~~selected~~ particular member;

wherein steps (a) through (d) ~~being~~ are performed only if the medical treatment outcome of the ~~selected~~ particular member is unacceptable.

6. (currently amended) A method for using a processor to provide treatment recommendations for improving ~~managing~~ the healthcare of a member ~~members~~ of a population, comprising the steps of:

a) identifying, using the processor, electronic information representing key medical characteristics and key member characteristics ~~of the members of the population~~, wherein the key

member characteristics include at least one of vital statistics, occupations, family histories and lifestyles of the respective members, and further wherein the electronic information is received over a communication network;

b) obtaining, by the processor, electronic population data that substantially conform to the key medical characteristics and the key member characteristics from a substantial proportion of the members of the population gathering population data comprising demographic and medical information of a plurality of the members;

c) organizing[[,]] and structuring, by the processor, and storing the electronic population data, and storing the organized and structured electronic population data in an electronic database;

d) establishing, by the processor, a set of logical rules for medical analysis, wherein the logical rules are based on one or more of accepted medical teachings, medical standards and protocols, drug formularies and the organized and structured electronic population data;

e) obtaining, by the processor, medical and demographic information for a particular member who requires medical care patient specific information of a selected member;

f) analyzing, by the processor, the medical and demographic information of the particular member who requires medical care the patient specific information using the set of logical rules;

g) providing, by the processor and based on the analyzing, medically appropriate patient specific treatment recommendations for the medical treatment of the selected particular member;

h) monitoring, by the processor, the medical treatment outcome of the selected particular member;

i) periodically repeating step (h) using follow-up health checks if the medical treatment outcome of the selected particular member is acceptable; and

j) if the medical treatment outcome of the selected particular member is unacceptable, performing the steps of:

i) adding the patient specific medical and demographic information and the medical treatment outcome of the selected particular member to the electronic population data;

- ii) ~~refining~~ revising the set of logical rules based on the selected particular member's patient-specific medical and demographic information and the medical treatment outcome;
- iii) analyzing by the processor the particular member's patient-specific medical and demographic information using the revised logical rules; and
- iv) providing revised recommendations for the medical treatment of the selected particular member.

7. (currently amended) A method for ~~managing~~ improving the healthcare of a plurality of members of a population, comprising the steps of:

- a) identifying, using the processor, electronic information representing key medical characteristics and key member characteristics of the members of the population, wherein the key member characteristics include at least one of vital statistics, occupations, family histories and lifestyles of the respective members, and further wherein the electronic information is received over a communication network;
- b) obtaining, by the processor, electronic population data that substantially conform to the key medical characteristics and the key member characteristics from a substantial proportion of the members of the population ~~gathering population data comprising demographic and medical information of a plurality of the members;~~
- c) organizing[[,]] and structuring, by the processor, and storing the electronic population data, and storing the organized and structured electronic population data in an electronic database;
- d) establishing, by the processor, a set of logical rules for medical analysis, wherein the logical rules are based on one or more of accepted medical teachings, medical standards and protocols, drug formularies and the organized and structured electronic population data;
- e) studying the electronic population data to establish a stratified set of health risks to the members;
- f) ~~selecting by the processor at least a portion of the set of risks;~~
- [[g]] f) analyzing the population using the set of logical rules to determine causes of the health selected portion of the set of risks; and

[[h]]g) providing recommendations for modifying the medical care of at least a portion of the population to reduce the health risks.

8. (currently amended) The method of claim 7 wherein the recommendations are used to ~~refine~~ revise the logical rules.

9. (original) The method of claim 7 wherein the population is comprised of members having a common medical condition.

10. (original) The method of claim 7 wherein the key characteristics, the set of risks and the logical rules are adapted to facilitate predictive healthcare for the members.

11. (original) The method of claim 7 wherein the key characteristics, the set of risks and the logical rules are adapted to facilitate preventative healthcare for the members.

12. (currently amended) The method of claim 7, further comprising the step of de-identifying by the processor the electronic population data.

13. (currently amended) The method of claim 7, further comprising the step of monitoring by the processor the medical treatment outcome of the population.

14. (original) The method of claim 13, further comprising the steps of

- a) selecting a new portion of the set of risks;
- b) analyzing the new portion of the set of risks; and
- c) providing new recommendations for the medical treatment of the population, if medical treatment outcome of the population is acceptable.

15. (currently amended) The method of claim 13, further comprising the steps of:

- a) revising set of the logical rules;
- b) analyzing the selected portion of the set of risks using the revised logical rules;

and

c) providing revised recommendations for the medical treatment of the population;
steps (a) through (c) being performed only if the medical treatment outcome of the
population is unacceptable